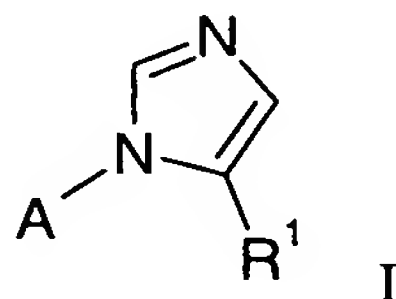


Amendments to the Claims:

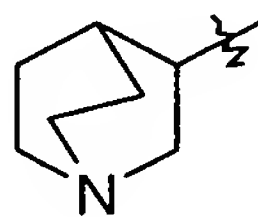
This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (original) A compound according to formula I:

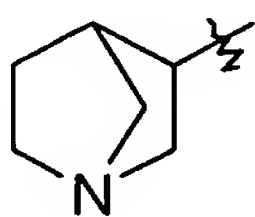


wherein:

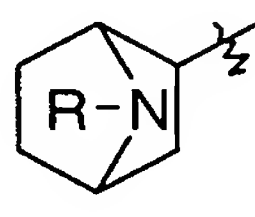
A represents:



II

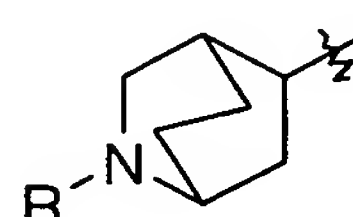


III



IV

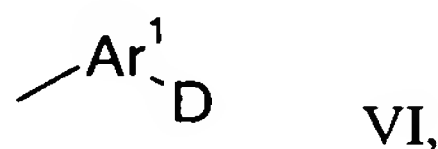
or



V

where R represents hydrogen or methyl, and

R¹ represents hydrogen or a moiety of Formula VI



wherein:

Ar¹ is selected from a 5- or 6-membered aromatic or heteroaromatic ring having 0, 1 or 2 nitrogen atoms, 0 or 1 oxygen atoms, and 0 or 1 sulfur atoms, or selected from an 8-, 9- or 10-membered fused aromatic or heteroaromatic ring system having 0, 1, 2 or 3 nitrogen atoms, 0 or 1 oxygen atoms, and 0 or 1 sulfur atoms;

D is selected from hydrogen, NR²R³, or E-Ar²;

wherein

E is a single bond, -O-, -S-, or -NR³-;

Ar² is selected from a 5- or 6-membered aromatic or heteroaromatic ring having 0, 1 or 2 nitrogen atoms, 0 or 1 oxygen atoms, and 0 or 1 sulfur atoms;

where each Ar^1 or Ar^2 moiety may be unsubstituted or bear 1, 2 or 3 substituents selected from $-\text{R}^3$, $-\text{C}_1\text{-C}_6\text{alkyl}$, $-\text{C}_2\text{-C}_6\text{alkenyl}$, $-\text{C}_2\text{-C}_6\text{alkynyl}$, halogen, $-\text{CN}$, $-\text{NO}_2$, $-\text{CF}_3$, $-\text{S}(\text{O})_n\text{R}^3$, $-\text{NR}^2\text{R}^3$, $-\text{CH}_2\text{NR}^2\text{R}^3$, $-\text{OR}^3$, $-\text{CH}_2\text{OR}^3$ or $-\text{CO}_2\text{R}^4$;

R^2 and R^3 are independently selected at each occurrence from hydrogen, $-\text{C}_1\text{-C}_4\text{alkyl}$, aryl, heteroaryl, $-\text{C}(\text{O})\text{R}^4$, $-\text{C}(\text{O})\text{NHR}^4$, $-\text{CO}_2\text{R}^4$ or $-\text{SO}_2\text{R}^4$, or

R^2 and R^3 in combination is $-(\text{CH}_2)_j\text{G}(\text{CH}_2)_k-$ wherein G is oxygen, sulfur, NR^4 , or a bond;

j is 2, 3 or 4;

k is 0, 1 or 2;

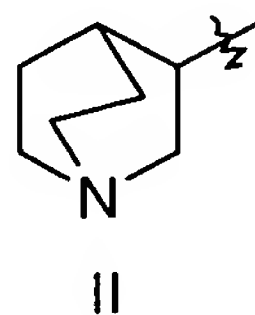
n is 0, 1 or 2, and

R^4 is independently selected at each occurrence from hydrogen, $-\text{C}_1\text{-C}_4\text{alkyl}$, aryl, or heteroaryl;

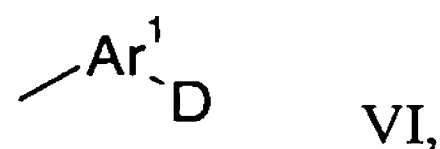
and stereoisomers, enantiomers, *in vivo*-hydrolysable precursors and pharmaceutically-acceptable salts thereof.

Claim 2 (original) A compound according to Claim 1 wherein:

A represents:



R^1 represents hydrogen or a moiety of Formula VI



wherein:

Ar^1 is selected from a 5- or 6-membered aromatic or heteroaromatic ring having 0 or 1 nitrogen atoms, 0 or 1 oxygen atoms, and 0 or 1 sulfur atoms;

D is selected from hydrogen, NR^2R^3 , or E-Ar^2 ;

wherein:

E is a single bond, $-\text{O}-$, $-\text{S}-$, or $-\text{NR}^3-$;

Ar² is selected from a 5- or 6-membered aromatic or heteroaromatic ring having 0 or 1 nitrogen atoms, 0 or 1 oxygen atoms, and 0 or 1 sulfur atoms;

where each Ar¹ or Ar² moiety may be unsubstituted or bear 1, 2 or 3 substituents selected from halogen, -CN, -NO₂, -CF₃, -CH₃ or -C₂H₅;

R² and R³ are independently selected at each occurrence from hydrogen, -C₁-C₄alkyl, aryl, heteroaryl, or

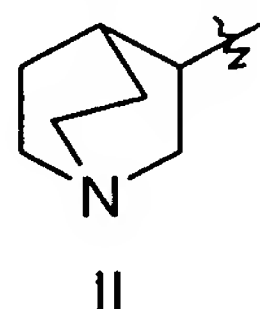
R² and R³ in combination is -(CH₂)_jG(CH₂)_k- wherein G is oxygen;

j is 2, 3 or 4;

k is 0, 1 or 2;

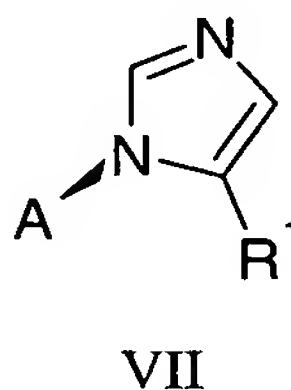
and stereoisomers, enantiomers, *in vivo*-hydrolysable precursors and pharmaceutically-acceptable salts thereof.

Claim 3 (original) A compound according to Claim 1, wherein A represents:



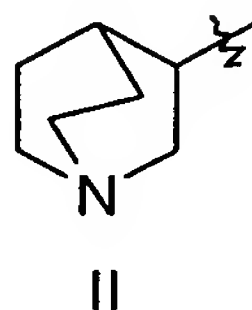
or an enantiomer thereof, and pharmaceutically-acceptable salts thereof.

Claim 4 (original) A compound according to Claim 1, wherein said compound is an R-isomer in accord with formula VII,



wherein A and R¹ are as defined for compounds of formula I.

Claim 5 (original) A compound according to Claim 4, wherein A is of formula II



and R¹ is as defined for compounds of formula I.

Claim 6 (original) A compound according to Claim 1, wherein E represents a single bond; or an enantiomer thereof, and pharmaceutically-acceptable salts thereof.

Claim 7 (original) A compound according to Claim 1, wherein Ar¹ is thiophenyl.

Claim 8 (original) A compound according to Claim 1, wherein Ar¹ is thiophenyl and Ar² is selected from hydrogen, halogen, phenyl, furanyl or thiophenyl having optional substituents.

Claim 9 (original) A compound according to Claim 1, wherein one or more of the atoms is a radioisotope of the same element.

Claim 10 (original) A method of treatment or prophylaxis of a disease or condition in which activation of the $\alpha 7$ nicotinic receptor is beneficial which method comprises administering a therapeutically-effective amount of a compound according to Claim 1 to a subject suffering from said disease or condition.

Claim 11 (original) The method of Claim 10, wherein said disease or condition is anxiety, schizophrenia, mania or manic depression.

Claim 12 (original) A method of treatment or prophylaxis of neurological disorders, psychotic disorders or intellectual impairment disorders, which comprises administering a therapeutically effective amount of a compound according to Claim 1.

Claim 13 (original) The method of Claim 12, wherein said disorder is Alzheimer's disease, learning deficit, cognition deficit, attention deficit, memory loss, Attention Deficit Hyperactivity Disorder, Parkinson's disease, Huntington's disease, Tourette's syndrome, neurodegenerative disorders in which there is loss of cholinergic synapses, jetlag, nicotine addiction, craving, pain, and for ulcerative colitis, which comprises administering a therapeutically effective amount of a compound according to Claim 1.

Claim 14 (original) A method for inducing the cessation of smoking comprising administering an effective amount of a compound according to Claim 1.

Claim 15 (original) A pharmaceutical composition comprising a compound according to Claim 1 and a pharmaceutically-acceptable diluent, lubricant or carrier.

Claim 16 (original) A method of treatment or prophylaxis of a disease or condition in which activation of the $\alpha 7$ nicotinic receptor is beneficial which method comprises administering a therapeutically-effective amount of a pharmaceutical composition according to Claim 15 to a subject suffering from said disease or condition.

Claim 17 (original) The method of Claim 16, wherein said disease or condition is anxiety, schizophrenia, mania or manic depression.

Claim 18 (original) A method of treatment or prophylaxis of neurological disorders, psychotic disorders or intellectual impairment disorders, which comprises administering a therapeutically effective amount of a pharmaceutical composition according to Claim 15.

Claim 19 (original) The method of Claim 12, wherein said disorder is Alzheimer's disease, learning deficit, cognition deficit, attention deficit, memory loss, Attention Deficit Hyperactivity Disorder, Parkinson's disease, Huntington's disease, Tourette's syndrome, neurodegenerative disorders in which there is loss of cholinergic synapses, jetlag, nicotine addiction, craving, pain, and for ulcerative colitis, which comprises administering a therapeutically effective amount of a pharmaceutical composition according to Claim 15.

Claim 20 (original) A method for inducing the cessation of smoking comprising administering an effective amount of a pharmaceutical composition according to Claim 15.

Claims 21 and 22 (cancelled).